

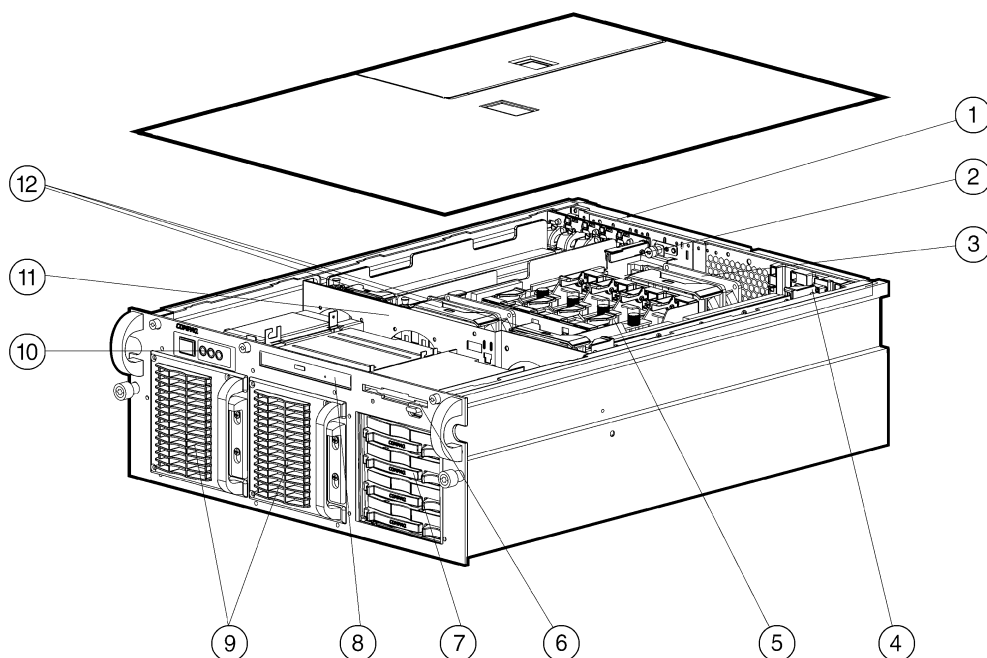
Overview

What's New

- Intel Pentium® III Xeon™ 700 MHz Processors (up to 4) with 1-MB, or 2-MB L2 Cache
- ServerWorks Enterprise ServerSet™ III HE chipset
- 512 MB PC100 Advanced ECC SDRAM Memory standard, expandable to 16 GB
- Integrated Smart Array Controller (Embedded on system board)
- Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100 in a slot (upgradable to Gigabit)
- 64-bit/66-MHz slots for 64-bit/66-MHz expansion card support
- Improved Serviceability and Intelligent Manageability

At A Glance

- Rack optimized (4U = 7") 4-way computing power for your data center or ISP/ASP environments
- Six PCI slots, 4 Hot Pluggable:
 - Two 64-bit/66-MHz Hot Plug
 - Two 64-bit/33-MHz Hot Plug
 - One 64-bit/33-MHz Non-Hot Plug
 - One 32-bit/33-MHz Non-Hot Plug
- Standard Wide Ultra2/Ultra3-ready Drive Cage (4 x 1")
- Internal Hot Plug Drive Storage of up to 145.6 GB with 36.4-GB 1" Wide Ultra2/Ultra3 hard drives
- Uncompromising reliability features:
 - Industry-Standard PCI Hot Plug with push button functionality
 - 7 x 24 cooling provided by 8 Hot Plug Redundant System Fans
 - Hot Plug 450-Watt Power Supply with optional redundant hot plug power supplies
- Automatic Server Recovery 2 (ASR-2), Integrated Remote Console (IRC), Compaq Insight Manager and SmartStart
- Toolless internal design for easy access to system components
- Protected by Compaq Services, including a limited three-year parts, labor and on-site warranty with optional four-hour response. Pre-Failure Warranty and Compaq Service and Support Programs available on a Worldwide basis — Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details.



1. Six PCI I/O Slots (Two 66-MHz, 4 hot plug)
2. Peripheral Board
3. Redundant Hot Plug Fan
4. Memory Board
5. Processors (up to 4 supported)
6. 1.44-MB Diskette Drive
7. 4 x 1" Wide Ultra2/Ultra3 Drive Cage
8. High Speed IDE CD-ROM
9. Power Supplies (2 shown above, 700-MHz Models ship standard with one Power Supply)
10. Front Panel LED Display
11. Removable Center Wall
12. Additional Hot Plug Redundant Fans

Standard Features

Processor	Intel Pentium III Xeon processor 700 MHz (Note: One or two processors ship standard depending on model.)	
Cache Memory	2-MB level 2 writeback cache per processor standard	
<i>One of the following</i>	1-MB level 2 writeback cache per processor standard	
Upgradability	Upgradable to quad processing Support for future processor upgrades	
Memory	Standard	512 MB (PC100-MHz Advanced ECC SDRAM Memory)
	Maximum	16 GB
	Note: Advanced ECC Memory Technology protects the data even in the event of an entire SDRAM component failure. Embedded in the chipset design, this feature allows the use of Industry-Standard Registered DIMMs.	
Network Controller	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100 in a slot (upgradable to Gigabit)	
Expansion Slots	I/O (Total)	6, 5 available
	64-bit/66-MHz PCI Hot Plug	2, 1 available
	64-bit/33-MHz PCI Hot Plug	2, 2 available
	64-bit/33-MHz PCI Non-Hot Plug	1, 1 available
	32-bit/33-MHz PCI Non-Hot Plug	1, 1 available
Storage Controller	Integrated Smart Array Controller (supports Internal RAID 0, 1, 0+1, 5 and external tape devices) Note: The Integrated Smart Array Controller is embedded on the system board.	
Storage	Diskette Drives	1.44 MB
	CD-ROM	High Speed IDE CD-ROM Drive (slim line)
	Hard Drives	None
	Maximum Internal Storage	145.6 GB (4 x 36.4 GB 1" drives) (internal hot plug drive cage)
Interfaces	Parallel	1
	Serial	1 (Note: You can configure a second serial device to your ProLiant DL580 server by installing the auxiliary serial connector that ships with the server. The auxiliary connector attaches to a serial port B on the peripheral board and exits the rear of the server through the auxiliary serial knockout located directly above the redundant power feeds.)
	Pointing Device (Mouse)	1
	Graphics	1
	Hot Plug Keyboard	1
	External Wide Ultra2 SCSI	1
	Network RJ-45	1
Graphics	Integrated 1280 x 1024, 256 color on PCI local bus, 2-MB video memory	
Form Factor	Rack (4U = 7"), ships with sliding rails and cable management	
Compaq Software	Compaq <i>Insight Manager</i> [™]	The comprehensive system management tool that monitors the operation of Compaq servers, workstations and clients
	Compaq <i>SmartStart</i> [™]	The server configuration and software integration tool from Compaq
	Array Configuration Utility (ACU) with Smart Array Controllers	Same easy to use yet powerful graphical user interface (GUI) configuration utility and easy to navigate wizards for all Smart Array Controllers

Standard Features

Intelligent Manageability	Compaq Remote Insight Lights Out Edition support Automatic Server Recovery-2 (ASR-2) Compaq Insight Manager Compaq Insight Manager XE Integrated Remote Console-IRC (with an internal modem) Integrated Management Log (IML) Server Health logging Off-Line Backup Processor capability Dynamic sector repairing and drive parameter tracking (with Smart Array controllers) Redundant/adaptive load balancing NIC Support
Availability	PCI Hot Plug with push button functionality 7 x 24 cooling provided by 8 Hot Plug Redundant System Fans Integrated Smart Array Controller for RAID data protection/performance and maximum data bandwidth Advanced Error Checking and Correcting (ECC) SDRAM Technology Hot Plug Ultra2/Ultra3 Drive Bays Redundant Hot Plug Power Supplies (optional) Redundant NIC support Pre-Failure Warranty (covers processors, hard drives, and memory)
Serviceability	Internal Diagnostics Display (IDD) indicates specific DIMM or processor failure. LED display on front panel indicates interlock, fan, and power failures. Spring-loaded memory board release latches prevent unseating incidents. PCI Card Guide holds long PCI cards in place during transit. Customer driven interior system fan design (all system fans interior to chassis) Removable, internal center panel eases access to the power supply and hard drive backplane boards. Optional High Voltage PDU cable exits chassis at a right angle to simplify cable management at rear of chassis.
Security	Power-on password Hot plug keyboard password Diskette drive control Diskette boot control Network Server Mode Security Provision Parallel and serial interface control Administrator's password Disk configuration lock Hot plug access security
Power Supply	One 450-Watt Hot Plug Power Supply (optional Redundant Hot Plug Power Supply Option Kit)
Required Cabling	For required cabling information, refer to the Compaq Web site at http://www.compaq.com/products/servers/proliantDL580/ . Note: This Web site is available in English only.

Standard Features

OS Support

Microsoft Windows NT Server
Microsoft Windows 2000
Novell NetWare
SCO OpenServer
SCO UnixWare
IBM OS/2 Warp Family
Linux (RedHat, S.U.S.E., TurboLinux Server, Caldera eServer)
Sun Solaris Intel Platform Edition
Banyan VINES

Note: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix at: <ftp://ftp.compaq.com/pub/products/servers/os-support-matrix-310.pdf>.

Note: For an up-to-date listing of the latest drivers available for the Compaq ProLiant DL580, please see: <http://www.compaq.com/support/files/server/us/index.html>.

Service and Support

Compaq Services provides a wide range of service offerings, including a three-year, limited warranty that is fully supported by a worldwide network of resellers and service providers, lifetime, toll-free 7 x 24 hardware technical phone support and Pre-Failure Warranty coverage of hard drives, memory and processors. Disaster recovery services are available through partnership with Comdisco.

Note: Certain restrictions and exclusions apply. Consult the Compaq Customer Support Center at 1-800-345-1518 for details. In Canada consult the Product Information Center at 1-800-567-1616 for details.

Standard Features

DL580R01 X700-2MB, 512MB (2P) <i>155618-001</i>	Processor(s)	(2) Intel Pentium III Xeon 700 MHz processors
	Cache Memory	2-MB Level 2 writeback cache per processor
	Memory	512 MB (Standard) to 16 GB (Maximum)
	Network Controller	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100 in a slot
	Storage Controller	Integrated Smart Array Controller
	Hard Drive	None
	Internal Storage	145.6 GB maximum
	Optical Drive	High Speed IDE CD-ROM Drive
	Form Factor	Rack 4U

DL580R01 X700-1MB, 512MB (1P) <i>155617-001</i>	Processor(s)	(1) Intel Pentium III Xeon 700 MHz
	Cache Memory	1-MB Level 2 writeback cache per processor
	Memory	512 MB (Standard) to 16 GB (Maximum)
	Network Controller	Integrated Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Base 10/100 in a slot
	Storage Controller	Integrated Smart Array Controller
	Hard Drive	None
	Internal Storage	145.6 GB maximum
	Optical Drive	High Speed IDE CD-ROM Drive
	Form Factor	Rack 4U

Options

ProLiant DL580 Unique Options	Compaq Hot Plug Redundant Power Supply Option Kit	105739-001
	Compaq High Voltage PDU Right Angled Cable Kit (IEC13-IEC14)	142257-004
<p>Note: The 10-Amp AC cord which ships standard with the Compaq ProLiant DL580 utilizes a right angle plug on the server side (the side that plugs into the server) to avoid interference with the Cable Management Arm. Compaq High Voltage PDUs ship standard with 15-Amp AC cords that incorporate straight plugs on the server side. The optional Compaq High Voltage PDU Right Angled Cable Kit (142257-004) provides a right angle version of the 15-Amp AC cord. When deploying Compaq High Voltage PDUs with the Compaq ProLiant DL580, you may choose to simplify cable management at the rear of the server chassis by installing this option kit.</p>		
Processor	Pentium III Xeon X7002MB Processor Option Kit	174449-B21
	<p>Note: This processor option kit (PN 174449-B21) supports the ProLiant DL580 and the ProLiant ML570 servers.</p>	
	Pentium III Xeon X700-1MB Processor Option Kit	174448-B21
	<p>Note: This processor option kit (PN 174448-B21) supports the ProLiant DL580 and the ProLiant ML570 servers.</p> <p>Note: The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The new Compaq Rack 9000 series (120663-001 (42U), 120664-001 (36U), 120665-001 (22U)) provides enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.</p> <p>When installing a server with Pentium III Xeon processors running at speeds of 550 MHz or greater in Compaq Rack 7000 series racks (165753-001 (42U), and 163747-001 (22U)), the new processor technology requires the installation of Compaq's new High Airflow Rack Door Insert (327281-B21 (42U) or 157847-B21 (22U)).</p>	
Memory (DIMMs)	4096-MB PC100 Advanced ECC SDRAM Memory Kit (4 x 1024 MB)	189083-B21
	2048-MB PC100 Advanced ECC SDRAM Memory Kit (4 x 512 MB)	189082-B21
	1024-MB PC100 Advanced ECC SDRAM Memory Kit (4 x 256 MB)	189081-B21
	512-MB PC100 Advanced ECC SDRAM Memory Kit (4 x 128 MB)	189080-B21
Hard Drives	Wide Ultra3 SCSI – Universal Hot Plug	
	36.4-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")	176496-B22
	18.2-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")	142673-B22
	9.1-GB Wide Ultra3 SCSI 10,000 rpm Drive (1")	142671-B22
	18.2-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")	188122-B22
	9.1-GB Wide Ultra3 SCSI 15,000 rpm Drive (1")	188120-B22
	Wide Ultra2 SCSI – Universal Hot Plug	
	18.2-GB Wide Ultra2 SCSI Drive (1")	388144-B22
	9.1-GB Wide Ultra2 SCSI Drive (1")	123065-B22
Storage Controllers	Smart Array 431 Controller	127695-B21
	Smart Array 3200 Controller	295643-B21
	Smart Array 4200 Controller	295636-B21
	Smart Array 5302/32 Controller	166207-B21
	Smart Array 5302/64 Controller	124992-B21
	Smart Array 5304/128 Controller	158939-B21
	Ultra3 Channel Expansion Module for Smart Array 5300 Controller	153507-B21
	64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	154457-B21
	64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	129803-B21

Options

Communications	Compaq NC3123 Fast Ethernet NIC PCI 10/100 WOL	174830-B21
	Compaq NC3122 Fast Ethernet NIC PCI Dual 10/100	317450-B21
	Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	138603-B21
	Compaq NC3135 Fast Ethernet Module Dual 10/100 Upgrade Module for NC3134 and NC3131	138604-B21
	Compaq NC6132 Gigabit Module 1000 SX Upgrade Module for NC3134 and NC3131	338456-B23
	Compaq NC6133 Gigabit Module 1000 LX Upgrade Module for NC3134 and NC3131	338456-B24
	Compaq NC3133 Fast Ethernet Module 100 FX Upgrade Module for NC3134 and NC3131	338456-B25
	Compaq NC6134 Gigabit NIC 64 PCI 1000 SX	174818-B21
	Compaq NC4621 Token Ring NIC PCI 4/16 WOL	379956-B21
	IBM 16/4 Token Ring PCI Special	133749-B21
	ServerNet PCI Adapter	309833-B22
	4M Cable	309834-B23
	30M Cable	309834-B22
	ServerNet II PCI Adapter Card Kit	174736-B21
	ServerNet II 12-Port Copper Serial Switch Kit	174739-001
	ServerNet II 5-meter Copper Serial Cable Kit	174737-B21
	ServerNet II 10-meter Copper Serial Cable Kit	174738-B22
Redundant Options	Compaq Hot Plug Redundant Power Supply Option Kit	105739-001
Management Options	Compaq Remote Insight (PCI) LAN + NA Modem	294013-002
	Compaq Remote Insight Board (PCI) LAN/Serial without modem	294013-B24
	Compaq Remote Insight Board (PCI) LAN only	294013-B25
	Compaq Remote Insight Lights-Out Edition	157866-001
Monitors	TFT5010 15" Flat Panel Monitor (Opal)	104741-001
	TFT5010 15" Flat Panel Monitor (Carbon)	154486-001
	TFT5005 15" Flat Panel Monitor (Opal)	201431-001
	TFT5005 15" Flat Panel Monitor (Carbon)	201430-001
	TFT5000R Flat Panel	120207-001
	P710 Color Monitor	210189-xxx
	V710 Color Monitor	187895-xxx
	V500 Color Monitor	325900-xxx
	S510 Color Monitor	168636-xxx
	S710 Color Monitor	152991-xxx
CRT Code Key	Dash #	Description
	-001	NA Kit with U.S. Power Cord
	-002	Carbon model with U.S. Power Cord
	-003	Touch Screen model with US Power Cord
	-004	NAFTA model with U.S. Power Cord (Made in Mexico)
	-005	NA Kit with Powered Speakers
	-006	GSA model with U.S. Power Cord
	-007	NH MPR model with U.S. power cord (Made in Mexico)
	-B24	TCO model without power cord (Digital Classic)
	Note: All models above are NH	

Options

External Tape Drives (Note: Only External Tape Drives are supported by the ProLiant DL580.)	External 20/40-GB DAT DDS-4 Tape Drive	157770-001
	20/40-GB DAT 8 Cassette Autoloader External	166505-001
	External 40/80-GB DLT Drive	146197-B21
	External 20/40-GB DLT Drive (Opal)	340744-B22
	External AIT 50-GB Tape Drive	157767-001
	External AIT 35-GB, LVD	216885-001
	External AIT 35-GB Tape Drive	388507-001
	DDS-4 Media (10 pack)	152842-001
	20/40-GB DAT 8 Cassette Magazine with Media	171532-B21
	12-GB DDS-3 DAT Cassette (10 Pack)	295515-B21
	DAT Cleaning Cassette	242781-001
	AIT 35-GB Data Cassette (five pack)	402371-B21
	AIT 50-GB Data Cassette (five pack)	152841-001
	DLT IV Drive Cartridge (single)	295194-B21
	DLT IV Drive Cartridge (seven pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
	Note: Please see the Compaq 20/40-GB DAT Drive, Compaq 20/40-GB DAT DDS-4 8 Cassette Autoloader, Compaq 40/80-GB DLT Drive, Compaq 20/40-GB DLT Drive, Compaq AIT 50-GB Tape Drive, Compaq AIT 35-GB LVD, or the Compaq AIT 35-GB Tape Drive QuickSpecs for a listing of the latest O/S Support details at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html Please note that all Web sites are available in English only.	
External Storage - Rack	Compaq StorageWorks Enclosure Model 4214R (rack-mountable)	103381-001
	Compaq StorageWorks Enclosure Model 4254R (rack-mountable)	138151-001
	Compaq StorageWorks Enclosure Model 4314R (rack-mountable)	190209-001
	Compaq StorageWorks Enclosure Model 4354R (rack-mountable)	190211-001
	Note: The Compaq StorageWorks Enclosure 4200/4300 Family support the Wide Ultra2/Ultra3 1" Hot Plug Hard Drives.	
	Rack-Mountable SCSI Storage Expander II	332607-001
	Rack-Mountable ProLiant Storage System Model UE	348700-001
	Rack-Mountable ProLiant Storage System Model U2	304100-B22
	Note: The Compaq ProLiant Storage System Models UE and U2 support the Wide-Ultra SCSI-3 Drives.	
	ProLiant Storage System /U Redundant Power Supply	224206-001
	StorageWorks Enclosure 4200 Redundant Power Supply Option	119826-B21
	StorageWorks Enclosure 4200 Ultra2 Dual Bus I/O Module Option	119829-B21
	StorageWorks Enclosure 4200 Ultra3 Single Bus I/O Module Option	190212-B21
	StorageWorks Enclosure 4200 Ultra3 Dual Bus I/O Module Option	190213-B21
	StorageWorks Enclosure Tower to Rack Conversion Kit	150213-B21
StorageWorks DLT Departmental Library	TL895 (96 slot) library unit, 2 drive	349350-B22
	TL895 (96 slot) library unit, 3 drive	349350-B23
	TL895 (96 slot) library unit, 4 drive	349350-B24
	TL895 (96 slot) library unit, 5 drive	349350-B25
	TL895 (96 slot) library unit, 6 drive	349350-B26
	TL895 (96 slot) library unit, 7 drive	349350-B27
	TL891DLX DLT Library, 1 drive, Rack, LVD	157305-B21
	TL891DLX DLT Library, 2 drive, Rack, LVD	157305-B22
	TL891 DLT library unit, 1 drive Rack, FWD	120876-B21
	TL891 DLT library unit, 2 drive Rack, FWD	120876-B22

Options

StorageWorks DLT Departmental Library <i>(continued)</i>	Add-On 35/70-GB Drive for TL891	120878-B21
	40/80 DLT Add-On Drive for TL891DLX	157303-B21
	40/80 DLT Add-On Drive for TL8x1, HVD	157304-B21
	DLT7000 drive upgrade kit	349351-B21
	Note: Available for TL895 DLT Library only.	
	MiniLibrary Data Unit	128670-B21
	Note: Available for TL891 DLT Libraries only.	
	MiniLibrary Expansion Unit	120877-B21
	Note: Available for TL891 DLT Libraries only.	
	MiniLibrary Expansion Unit, LVD (Available for TL891DLX DLT Libraries only.)	157301-B21
	StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter	157299-B21
	Note: The StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter is required to support FWD-based tape libraries.	
	DLT IV Data Cartridges (single pack)	295194-B21
	DLT IV Data Cartridges (7 pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
	MiniLibrary Pass-Through Mechanism Kit	120880-B21
	Note: Available for TL891 DLT Libraries only.	
	10 Slot Magazine	120881-B21
	Note: Available for TL891 DLT Libraries only.	
	MiniLibrary Table Top to Rack Mount Conversion Kit, Metric/RETMA racks	120882-B21
	Note: Available for TL891 DLT Libraries only.	
Automated AIT Tape Library Solution	MiniLibrary Table Top to Rack Mount Conversion Kit, Compaq racks	120883-B21
	Note: Available for TL891 DLT Libraries only.	
	Note: Please see the TL891, TL891 DLX, or the TL895 Automated DLT Tape Library Solution QuickSpecs for additional information, including Upgrade Kits, Accessories, ProLiant Connectivity Kits, Host Bus Adapters, SCSI Cable Kits, and Localization Kits and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html	
	Please note that all Web sites are in English only.	
	SSL2020 AIT Mini-Library 1 drive, 20-slot Rackmount	175196-B21
	SSL2020 AIT Mini-Library 2 drive, 20-slot Rackmount	175196-B22
	SSL2020 AIT Library Pass Thru with Transport	175312-B21
	SSL2020 AIT Library Pass Thru Extender	175312-B22
	AIT 50GB Drive Add-On LVD Drive for SSL2020 AIT Library	175197-B21
	19-slot Magazine for SSL2020 AIT Library	175198-B21
	AIT 50-GB Data Cassette (5 pack)	152841-001
	AIT Cleaning Cassette	402374-B21
Tape Array Solution	Tabletop to Rackmount Upgrade Kit for SSL2020 AIT Library, Compaq Rack	175199-B21
	Tabletop to Rackmount Upgrade Kit for SSL2020 AIT Library, RETMA racks	175199-B22
	Note: Please see the AIT Automated DLT Tape Library Solution QuickSpecs for additional information including Upgrade Kits, Accessories, and SCSI Cable Kits and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html	
	Please note that all Web sites are in English only.	
	TA1000 AIT Tape Array, Rackmount	175005-001
	AIT 50-GB Data Cassette (5 pack)	152841-001
	AIT Cleaning Cassette	402374-B21
	DLT Tape Array III Model 40/80-4	161140-001
	DLT Tape Array III Model 0	168047-001

Options

Tape Array Solution <i>(continued)</i>	DLT Tape Array II Model 35/70-4 no software	295165-001
	DLT IV Data Cartridges (single pack)	295194-B21
	DLT IV Data Cartridges (7 pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
	DLT Library Tabletop Conversion Kit	350384-B21
	Tape Array Cable Kit	242427-001
	Note: Available for the DLT Tape Array and DLT Tape Array II only.	
	DLT Tape Array III Model 0, LVD Cable Kit	168048-B21
	Note: Available for the DLT Tape Array III Model.	
	Note: Please see the Compaq TA1000 AIT Tape Array, Compaq DLT Tape Array III, or the Compaq DLT Tape Array II QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html Please note that all Web sites are in English only.	
StorageWorks Enterprise Tape Library	ESL9326DX Enterprise Library 6 40/80 Drive	161265-B23
	ESL9326DX Enterprise Library 8 40/80 Drive	161265-B24
	ESL9326DX Enterprise Library 10 40/80 Drive	161265-B25
	ESL9326DX Enterprise Library 12 40/80 Drive	161265-B26
	ESL9326DX Enterprise Library 14 40/80 Drive	161265-B27
	ESL9326DX Enterprise Library 16 40/80 Drive	161265-B28
	ESL9326D, 0 Drive Unit	146205-B21
	ESL9236D Enterprise Library 6 35/70 Drive	146205-B23
	ESL9236D Enterprise Library 8 35/70 Drive	146205-B24
	ESL9236D Enterprise Library 10 35/70 Drive	146205-B25
	ESL9236D Enterprise Library 12 35/70 Drive	146205-B26
	ESL9236D Enterprise Library 14 35/70 Drive	146205-B27
	ESL9236D Enterprise Library 16 35/70 Drive	146205-B28
	ESL9198DLX Enterprise Library LVD, 0 Devices	194993-B21
	ESL9198DLX Enterprise Library 2 40/80 Drive	194993-B22
	ESL9198DLX Enterprise Library 4 40/80 Drive	194993-B24
	ESL9198DLX Enterprise Library 8 40/80 Drive	194993-B28
	ESL9000 Add-On 40/80-GB DLT Drive	161267-B21
	ESL9000 Add-On LVD 40/80-GB DLT Drive in Hot Plug Canister	221248-B21
	Library Ready 35/80GB DLT Hot-Swap Drive for ESL9326D	146209-B21
	LVD Extender Kit	221249-B21
	ESL 9000 Pass Through Kit for Multi User Connectivity	161268-B21
	StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter	157299-B21
	Note: The StorageWorks Dual Channel Ultra-Wide Differential Library Host Bus Adapter is required to support the ESL9236D Library.	
	DLT IV Data Cartridges (single pack)	295194-B21
	DLT IV Data Cartridges (7 pack)	295192-B21
	DLT Cleaning Cartridge	199704-001
	Note: Please see the Compaq StorageWorks Enterprise Backup Solution QuickSpecs for additional information including Tape Drives, Cartridges, Controllers, and SCSI Cables and additional options needed for a complete solution at: http://www.compaq.com/products/quickspecs/North_America/10233_na.html Please note that all Web sites are in English only.	

Options

StorageWorks RAID Array 4100	StorageWorks Raid Array 4100 (rack)	146013-001
	Fibre Channel Storage Hub 12	295573-001
	Fibre Channel Storage Hub 7	234453-001
	Compaq Storage Hub 7 Universal Rack Mount Kit	136127-B21
	Fibre Channel Storage Hub – 12 Port with 41U/42U Bracket	295573-B22
	Compaq Storage Hub 12 Management Option	159262-B21
	StorageWorks Raid Array 4000 Redundant Array Controller	223187-B21
	StorageWorks Fibre Channel Arbitrated Loop Switch 8	177862-B21
	StorageWorks Fibre Channel Arbitrated Loop 3-Port Expansion Module	177863-B21
	64-bit/66MHz Fibre Channel Host Adapter	120186-B21
	Fibre Channel Host Adapter Redundancy Kit	174681-B21
	GBIC-SW Connector Kit (two each)	234459-B21
	GBIC-LW Connector Kit (two each)	340412-B21
	Fibre Channel Connection Kit, 3 SW GBICS, 2 Cables	380579-B21
	Fibre Channel Connection Kit, 2 SW GBICS, 2 Cables	380596-B21
	Fibre Channel short-wave GBIC	380561-B21
	Fibre Channel long-wave GBIC	127508-B21
	2m Multi-Mode Fibre Channel Cable	234457-B21
	5m Multi-Mode Fibre Channel Cable	234457-B22
	15m Multi-Mode Fibre Channel Cable	234457-B23
	30m Multi-Mode Fibre Channel Cable	234457-B24
	50m Multi-Mode Fibre Channel Cable	234457-B25
	Raid Array 4000 Redundant Power Supply	224206-001
	Raid Array 4100 Rack to Tower Conversion Kit	154253-B21
	Fibre Channel Array Controller 64-MB Cache Upgrade Kit	262398-B21
	Raid Array 4100 Rack to Tower Conversion Kit	154253-B21
	Fibre Channel Troubleshooting Kit	234468-B21
StorageWorks RAID Array 8000	Departmental Pedestal Models	
	RA8000 FC Single Controller (Opal)	400553-B22
	RA8000 FC Dual Controller (Opal)	400552-B22
	Expansion Cabinet 24-slot (Opal)	380570-B22
	Rack Mountable Models	
	RA8000 FC Single Controller	400554-B21
	RA8000 FC Dual Controller	400700-B21
	Expansion Cabinet 24-slot	380568-B21
	Note: Please see the Compaq StorageWorks Fibre Channel RAID Array 8000, ESA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html Please note that all Web sites are available in English only.	

Options

StorageWorks Enterprise Storage Array 12000	ESA Building Blocks	
	High-capacity/General Business – Dual Controllers 48 slots, 60 Hz (Opal)	400557-002
	High bandwidth Quad controllers 48 slots, 60 Hz (Opal)	400555-002
	Single expansion Dual controllers 24 slots, 25U extra cabinet space, 60 Hz (Opal)	400559-002
	Expansion enclosure 48 slots, 60 Hz (Opal)	380640-002
Note: Please see the Compaq StorageWorks Fibre Channel RAID Array 8000, ESA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html Please note that all Web sites are available in English only.		
StorageWorks Modular Array 6000	MA6000 D14	187738-B21
	MA6000 S14	187739-B21
	Note: Please see the Compaq StorageWorks MA6000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html Please note that all Web sites are available in English only.	
StorageWorks Modular Array 8000/Enterprise Modular Array 12000	EMA12000 D14 60 Hz	175990-B21
	EMA12000 S14 60 Hz	175991-B21
	MA8000 60 Hz	175992-B21
	EMA12000 Blue 60 Hz	175993-B21
	Note: Options include controller, solution kits, ACS. MA8000/EMA12000 includes controller shelf, drive shelves and cabinet. Packaging upgrade to RA8000/ESA12000. Note: Please see the Compaq StorageWorks MA8000/EMA12000 QuickSpecs for FC Hubs, FC switches, platform software, host adapters, disks and options for complete solutions at: http://www.compaq.com/products/quickspecs/North_America/10418_na.html Please note that all Web sites are available in English only.	
StorageWorks Options	Fibre Channel Tape Controller – II	152975-001
	Fibre Channel Storage Switch 16	380578-B21
	Fibre Channel Storage Switch 8	380591-B21
	Fibre Channel SAN Switch/8 with Fabric Operating Software	158222-B21
	Fibre Channel SAN Switch/16 with Fabric Operating Software	158223-B21
	F200 Clustering Kit	380357-B21
Uninterruptible Power Systems – Rack	Rack-Mountable UPS R1500 (100 to 127 VAC)	242704-001
	Compaq UPS R3000 XR (120V)	192186-001
	Compaq UPS R3000 XR (208V)	192186-002
	Rack-Mountable UPS R6000 (208V)	347207-001
	R6000 Extended Runtime Module	347224-B21
	Note: Available for the UPS R6000 Models only.	
	Extended Runtime Module, R3000 XR	192188-B21
	Note: Available for the UPS R3000 XR Models only.	
	Six-Port Card	192185-B21
	Note: Available for the new UPS “XR” Models only.	
	SNMP/Serial Port Card	192189-B21
	Note: Available for the new UPS “XR” Models only.	
	SNMP-EN Adapter	347225-B21

Options

Uninterruptible Power Systems – Rack <i>(continued)</i>	High to Low Voltage Transformer (250VA)	388643-B21
	Multi-Server UPS Card	123508-B21
	Scalable UPS Card	123509-B21

Compaq Rack Builder for configuration assistance at
www.compaq.com/products/storageworks/rack_accessories/rackbuilderpro2.html.

Compaq Rack 9000 Series (Opal)	Compaq Rack 9142 (42U) – Pallet	120663-B21
	Compaq Rack 9142 (42U) – Shock Pallet	120663-B22
	Compaq Rack 9142 (42U) – Crated	120663-B23
	Compaq Rack 9136 (36U) – Pallet	120664-B21
	Compaq Rack 9136 (36U) – Shock Pallet	120664-B22
	Compaq Rack 9136 (36U) – Crated	120664-B23
	Compaq Rack 9122 (22U) – Pallet	120665-B21
	Compaq Rack 9122 (22U) – Shock Pallet	120665-B22
	Compaq Rack 9122 (22U) – Crated	120665-B23
Note: -B22 part numbers are used to ship configured racks (by custom systems, VARs and Channels) -B23 part numbers are used for air shipments		

Rack Options for Compaq Rack 9000 Series	Baying/Coupling Kit	120669-B21
	Rack 9142 Side Panel	120670-B21
	Rack 9136 Side Panel	120671-B21
	Ballast Option Kit	120672-B21
	Stabilizer Option Kit	120673-B21
	Rack Rail Adapter Kit (25" depth)	120675-B21
	Fan (110 VAC) Roof Mount	120677-B21
	Fan (220 VAC) Roof Mount	120678-B21
	9142 Extension Kit	120679-B21
	Grounding Rack Option Kit	120682-B21
	Cable Management D-Rings Kit	168233-B21
	Rack Blanking Panels (1U)	189453-B21
	Rack Blanking Panels (2U)	189453-B22
	Rack Blanking Panels (3U)	189453-B23
	Rack Blanking Panels (4U)	189453-B24
	Rack Blanking Panels (5U)	189453-B25
	9136 Extension Kit	218216-B21
	9142 Short Rear Door	218217-B21
	9136 Short Rear Door	218218-B21

Rack Options for Compaq Rack 7000 Series	Rack Sidewall Kit (42U only)	165652-001
	Coupling Kit (42U only)	165664-001
	Stabilizing Feet (42U only)	189907-001
	High Air Flow Rack Door Insert for 7122	157847-B21
	High Air Flow Rack Door Insert for 7142	327281-B21
	High Air Flow Rack Door Insert for 7142 (six pack)	327281-B22
	Compaq Rack Extension Kit for 7142	154392-B21

Options

Rack Options for Compaq Rack 7000 and 9000 Series	Sliding Shelf Kit	332564-B21
	Monitor Utility Shelf	303606-B21
	Rack Blanking Panel Kit for Rack 7000 series (Beach Gray)	169940-001
	Rack Blanking Panel Kit for Rack 9000 series(Opal)	169940-B21
	Compaq Networking Cable Management Kit	292407-B21
	Compaq Networking Recessed Rail Management Kit	292406-B21
	Compaq Power Distribution Unit-24A Low Voltage PDU	295363-001
	Compaq Power Distribution Unit-16A High Voltage PDU (cord attached)	295363-002
	Compaq Power Distribution Unit-16A High Voltage, 16A (detachable cord)	295363-B21
	Compaq Power Distribution Unit-24A High Voltage	295363-003
	Compaq Dual Input Power Distribution Unit-24A High Voltage	191186-001
	Compaq High Voltage PDU Right Angled Cable Kit (IEC13-IEC14)	142257-004
	<p>Note: The 10-Amp AC cord which ships standard with the Compaq ProLiant DL580 utilizes a right angle plug on the server side (the side that plugs into the server) to avoid interference with the Cable Management Arm. Compaq High Voltage PDUs ship standard with 15-Amp AC cords that incorporate straight plugs on the server side. The optional Compaq High Voltage PDU Right Angled Cable Kit (142257-004) provides a right angle version of the 15-Amp AC cord. When deploying Compaq High Voltage PDUs with the Compaq ProLiant DL580, you may choose to simplify cable management at the rear of the server chassis by installing this option kit.</p>	
	Server Console Switch 1 x 2 port (100 to 230 VAC)	120206-001
Rack Options for Third Party Cabinet Racks	Server Console Switch 1 x 4 port (100 to 230 VAC)	400336-001
	Server Console Switch 1 x 8 port (100 to 230 VAC)	400337-001
	Server Console Switch 2 x 8 port (100 to 230 VAC)	400338-001
	Server Console Switch 2 x 8 port (48 VDC)	400542-B21
	CPU to Server Console Cable, 12'	110936-B21
	CPU to Server Console Cable, 20'	110936-B22
	CPU to Server Console Cable, 40'	110936-B23
	CPU to Server Console Cable, 3'	110936-B24
	CPU to Server Console Cable, 6'	110936-B25
	CPU to Server Console Cable (Plenum Rated) 20'	149363-B21
	CPU to Server Console Cable (Plenum Rated) 40'	149364-B21
	Switch Box Connector Kit (115 V)	144007-001
	Switch Box Connector Kit (230 V)	144007-002
	Keyboard with Hot Keys and Trackball	158649-001
CarePacs	Rack Internal Trackball Keyboard (Opal)	185152-406
	1U Rack Keyboard Drawer	338056-B21
	Keyboard/Monitor/Mouse extension cables	169989-001
<hr/>		
Hardware Services 4-Hour On-site Service	Depth Adjustable Fixed Rails	332558-B21
	<hr/>	
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (2-5-2 Part Number for U.S.)	FM-MI4HR-36
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-MI4HR-36
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	401783-002
	4-Hour On-site Service, 5-Day x 9-Hour Coverage, 3 Years (6-3 Part Number for Canada)	401783-122
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (2-5-2 Part Number for U.S.)	FM-MI724-36

Options

CarePacs (continued)

4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (2-5-2 Part Number for Canada)	FP-MI724-36
4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for U.S.)	401782-002
4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years (6-3 Part Number for Canada)	401782-122

Installation & Start-up Services

Hardware Installation (2-5-2 Part Number for U.S.)	FM-MIINS-IN
Hardware Installation (2-5-2 Part Number for Canada)	FP-MIINS-IN
Hardware Installation (6-3 Part Number for U.S.)	401793-002
Hardware Installation (6-3 Part Number for Canada)	401793-122
O/S & Hardware Installation (2-5-2 Part Number for U.S.) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	FP-CXHSI-03
O/S & Hardware Installation (6-3 Part Number for U.S.) (Hardware installation plus two days O/S start-up activity (installation, configuration, network access & orientation))	160557-002

Business Solutions Priority Service Plan – Priority Level

5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (2-5-2 Part Number for U.S.)	FP-CX103-36
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (2-5-2 Part Number for Canada)	FP-CZ103-36
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for U.S.)	155325-002
5 x 9 4-hour H/W, 5 x 9 2-hour O/S (NT & NetWare), Three Years (6-3 Part Number for Canada)	155325-122

Business Solutions Priority Service Plan – Priority 24 Level

7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (2-5-2 Part Number for U.S.)	FP-CX203-36
7 x 24 4-hour H/W, 7 x 24 2-hour O/S (NT & NetWare), Three years (6-3 Part Number for U.S.)	155329-002

Business Solutions Priority Service Plan – Priority Plus Level

7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (2-5-2 Part Number for U.S.)	FP-CX303-36
7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (2-5-2 Part Number for Canada)	FP-CZ303-36
7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (6-3 Part Number for U.S.)	155333-002
7 x 24 4-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS account review, Three Years (6-3 Part Number for Canada)	155333-122

Options

CarePacs (continued)

Business Solutions Priority Service Plan – Priority Premier Level

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for U.S.) FP-CX503-36

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada) FP-CZ503-36

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for U.S.) 155337-002

7 x 24 2-hour H/W, 7 x 24 1-hour O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada) 155337-122

Business Solutions Priority Service Plan – Priority Executive Premier Level

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for U.S.) FP-CX703-36

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (2-5-2 Part Number for Canada) FP-CZ703-36

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for U.S.) 155341-002

7 x 24 2-hour H/W, 7 x 24 30-minute O/S (NT & NetWare), SPS Account Review, Proactive Management Review, named S/w rep, Three Years (6-3 Part Number for Canada) 155341-122

Note: For more information, customer/resellers can contact www.Compaq.com/services. Please note this web site is available in English only.

Memory

Compaq ProLiant DL580

STANDARD MEMORY

512-MB PC100-MHz Advanced ECC SDRAM DIMM installed (4 x 128-MB SDRAM DIMM)

STANDARD MEMORY PLUS OPTIONAL MEMORY

Up to 12,800-MB memory is available with the optional installation of PC100-MHz Advanced ECC SDRAM DIMM memory kits.

STANDARD MEMORY REPLACED WITH OPTIONAL MEMORY

Up to 16,384-MB of memory is available with the removal of the standard 512-MB of memory and the optional installation of PC100-MHz Advanced ECC SDRAM DIMM memory kits.

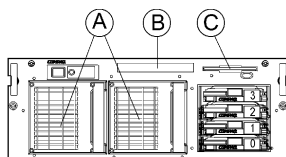
Note: Memory must be added in banks of four DIMMS. This chart does not represent all possible memory configurations.

Memory		Slot															
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Standard	512MB	128 MB	128 MB	128 MB	128 MB	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty	Empty
Optional	12,800 MB	128 MB	128 MB	128 MB	128 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB
Maximum	16,384 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB	1024 MB

Following are memory options available from Compaq:

- | | |
|--|------------|
| • 4096-MB PC100-MHz Advanced ECC SDRAM Memory Option Kit (4 x 1024 MB) | 189083-B21 |
| • 2048-MB PC100-MHz Advanced ECC SDRAM Memory Option Kit (4 x 512 MB) | 189082-B21 |
| • 1024-MB PC100-MHz Advanced ECC SDRAM Memory Option Kit (4 x 256 MB) | 189081-B21 |
| • 512-MB PC100-MHz Advanced ECC SDRAM Memory Option Kit (4 x 128 MB) | 189080-B21 |

Storage



- A Hot Plug Power Supplies
- B 3.5 inch Diskette Drive
- C High Speed IDE CD-ROM
- 0-3 Wide Ultra2/Ultra3 Drive Cage (4 x 1")

DRIVE SUPPORT

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	C	Integrated
IDE CD-ROM Drive	Up to 1	B	Integrated IDE
Hard Drives			
<i>Wide Ultra3 Hot Pluggable Drives</i>			
Note: Wide Ultra3 SCSI drives require the purchase and installation of Wide Ultra3 Controllers or Adapters to run at Wide Ultra3 speeds.			
1-inch	Up to 4	0-3	Integrated Smart Array Controller
36.4-GB 10,000 rpm			Smart Array 431 Controller
18.2-GB 10,000 rpm			Smart Array 3200 Controller
9.1-GB 10,000 rpm			Smart Array 4200 Controller
18.2-GB 15,000 rpm			Smart Array 5300 Controller
9.1-GB 15,000 rpm			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
<i>Wide Ultra2 Hot Pluggable Drives</i>			
1-inch	Up to 4	0-3	Integrated Smart Array Controller
18.2-GB			Smart Array 431 Controller
9.1-GB			Smart Array 3200 Controller
			Smart Array 4200 Controller
			Smart Array 5300 Controller
			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
External Storage			
StorageWorks Enclosure 4200/4300 Family (supports Ultra2/Ultra3 drives only)	Up to 10 (2 per channel SCSI controller)	External	Integrated Smart Array Controller
			Smart Array 431 Controller
			Smart Array 3200 Controller
			Smart Array 4200 Controller
			Smart Array 5300 Controller
			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
ProLiant Storage System Models UE	Up to 10 (2 per channel SCSI controller)	External	Smart Array 3200 Controller
ProLiant Storage System Models U2 (supports Wide-Ultra SCSI-3 drives only)			Smart Array 4200 Controller
			Smart Array 5300 Controller
			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
SCSI Storage Expander II	Up to 10 (2 per channel SCSI controller)	External	Smart Array 3200 Controller
			Smart Array 5300 Controller
			64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter
			64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter
StorageWorks RAID Array 4100 Kit	Up to 11	External	Fibre Channel Host Adapter

Storage

DRIVE SUPPORT *(continued)*

Maximum Internal Hot Plug Storage Capacity – (SCSI Attached)

Internal	145.6 GB (4 x 36.4-GB Wide Ultra3 SCSI 1" Drives)
External	4.368 TB (10 ProLiant Storage Systems, each with 12 x 36.4-GB 1" hard drives)
Total	4.513 TB

Maximum Internal Hot Plug Storage Capacity – (External StorageWorks Enclosure Attached)

Internal	145.6 GB (4 x 36.4-GB Wide Ultra3 SCSI 1" Drives)
External	5.096 TB (10 StorageWorks Enclosures, each with 14 x 36.4-GB hard drives)
Total	5.241 TB

Maximum Storage Capacity – (External RAID Array 4100 Attached)

Internal	145.6 GB (4 x 36.4-GB Wide Ultra3 SCSI 1" Drives)
External	28.828 TB (6 PCI slots x 11 Raid Array 4000, each with 12 x 36.4-GB 1" hard drives)
Total	28.974 TB

Technical Specifications

System Unit Tower	Dimensions (HxWxD)	6.94 x 19 x 28.3 in/ 17.6 x 48.3 x 71.9 cm		
	Chassis Footprint (HxWxD)	6.94 x 19 x 25 in/17.6 x 48.3 x 63.5 cm		
	Weight	66 lbs/29.9 kg		
	No hard drives installed, one power supply			
	Input Requirements	Rated Input Voltage	90 to 120 VAC/200 to 240 VAC	
		Rated Input Frequency	50 to 60 Hz	
		Input Power	600W @ 110 VAC/600W @ 220 VAC	
		Rated Input Current	7A (90 VAC), 5A (120 VAC), 3A (210 VAC)	
	BTU Rating	2291 BTU		
	SCSI Connector	One 68-pin connector supporting Wide Ultra2 SCSI		
	Power Supply Output Power (per power supply)	Rated Steady-State Power	450W/450W (lowline/highline)	
		Maximum Peak Power	480W/480W (lowline/highline)	
	Temperature Range	Operating	50° to 95°F/10° to 35°C	
		Non-operating	-20° to 140°F/-29° to 60°C	
		Shipping	-22° to 122°F/-30° to 50°C	
	Relative Humidity (non-condensing)	Operating	20% to 80%	
		Non-operating	5% to 90%	
Maximum Wet Bulb Temperature	101.7°F/38.7°C			
Acoustic Noise	Idle (Fixed Disk Drives Spinning)			
	L _{WAd} (BELS)	7.2		
	L _{pAm} (dBA)	53		
	Operating (Random Seeks to Fixed Disks)			
	L _{WAd} (BELS)	7.3		
	L _{pAm} (dBA)	54		

1.44-MB Diskette Drive	Diskette Size	3.5 in		
	LED Indicators (front panel)	Green		
	Read/Write Capacity per Diskette (high/low density)	1.44 MB/720 KB		
	Drive Supported	One		
	Drive Height	One-third		
	Drive Rotation	300 rpm		
	Transfer Rate (high/low)	500/250 Kb/s		
	Bytes/Sector	512		
	Sectors/Track (high/low)	18/9		
	Tracks/Side (high/low)	80/80		
	Access Times	Track-to-Track (high/low)	3/6 ms	
		Average (high/low)	169/94 ms	
		Settling Time	15 ms	
		Latency Average	100 ms	
	Cylinders (high/low)	80/80		
Read/Write Heads	Two			

Technical Specifications

Hot Plug Wide Ultra3 SCSI Hard Drives	36.4 GB 10K 176496-B22	Capacity	36400 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.2 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Logical Blocks 71,132,000	
		Operating Temperature	50° to 95°F/10° to 35°C	
	18.2 GB 10K 142673-B22	Capacity	18209.3 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.2 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Logical Blocks 35,565,080	
		Operating Temperature	50° to 95°F/10° to 35°C	
	9.1 GB 10K 142671-B22	Capacity	9100.0 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.0 ms
			Full-Stroke	12 ms
			Rotational Speed	10,000 rpm
		Physical Configuration	Logical Blocks 17,773,524	
		Operating Temperature	50° to 95°F/10° to 35°C	
	18.2 GB 15K 188122-B22	Capacity	18209.3 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.0 ms
			Full-Stroke	12 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Logical Blocks 35,565,080	
		Operating Temperature	50° to 95°F/10° to 35°C	

Technical Specifications

Hot Plug Wide Ultra3 SCSI Hard Drives <i>(continued)</i>	9.1 GB 15K 188120-B22	Capacity	9100.0 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra3 SCSI	
		Transfer Rate Synchronous (Maximum)	160 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	5.0 ms
			Full-Stroke	12 ms
			Rotational Speed	15,000 rpm
		Physical Configuration	Logical Blocks	17,773,524
		Operating Temperature	50° to 95°F/10° to 35°C	
Hot Plug Wide Ultra2 SCSI Hard Drives	18.2 GB 388144-B22	Capacity	18209.3 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra2 SCSI	
		Transfer Rate Synchronous (Maximum)	80 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	7.0 ms
			Full-Stroke	15 ms
			Rotational Speed	7200 rpm
		Physical Configuration	Logical Blocks	35,565,080
		Operating Temperature	50° to 95°F/10° to 35°C	
	9.1 GB 123065-B22	Capacity	9100.0 MB	
		Height	1 in/25.4 mm	
		Width	3.5 in/88.9 mm	
		Interface	Wide Ultra2 SCSI	
		Transfer Rate Synchronous (Maximum)	80 MB/s	
		Seek Time (typical reads, including settling)	Single Track	0.8 ms
			Average	7.0 ms
			Full-Stroke	15 ms
			Rotational Speed	7200 rpm
		Physical Configuration	Logical Blocks	17,773,524
		Operating Temperature	50° to 95°F/10° to 35°C	

Technical Specifications

24X Max (or higher) IDE CD-ROM Drive Slim Line	Disk	Applicable Disk	CD-ROM (Mode 1 and 2) CD-DA, CD-XA (Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed Mode (Audio and Data combined)
		Capacity	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)
		Diameter	4.7 in, 3.15 in/12 cm, 8 cm
		Rotational Speed	4200 rpm maximum
		Center Hole	0.6 in/15 mm diameter
		Thickness	1.2 mm
		Track Pitch	1.6 μm
	Block Size	Mode 1	2,048
		Mode 2	2,340, 2,336, 1,024 bytes
		CD-DA	2,352 bytes
		CD-XA	2,328 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	100 ms
		Full-Stroke	2000 ms
	Audio Output Level	Line-Out	0.7 VRMS at 47 kOhms
		Headphone	0.6 VRMS at 32 kOhms (maximum volume)
	Data Transfer Rate	Sustained	150 KB/s (single)
	Burst	2100 to 3600 KB/s	
Cache Buffer	128 KB		
Start-up Time (typical)	< 7 seconds		
Stop Time	< 4 seconds		
Laser Parameters	Type	Semiconductor Laser GaAlAs	
	Wave Length	780 ± 25 nm	
	Divergence Angle	53.5° ± 1.5°	
	Output Power	0.14 mW	
Operating Conditions	Temperature	41° to 113°F/5° to 45°C	
	Humidity	10% to 80%	
Dimensions	(HxWxD, maximum)	1.69 x 5.75 x 8.19 in/4.29 x 15 x 20.8 cm	
	Weight	2.66 lbs/1.2 kg	

Technical Specifications

Integrated Smart Array Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	32-bit, 33 MHz (integrated on server board)
	PCI Peak Data Transfer Rate	133 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	80 MB/s
	Note: For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	Channels	1
	Note: For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	SCSI Ports (external/internal)	0/1
	Note: For ProLiant servers having TWO internal drive bays on separate SCSI ports: SCSI Peak Data Transfer Rate is 160 MB/s total; 80 MB/s per channel and Channels is 2.	
	Drives Supported (maximum)	Maximum = total number of drives
	Note: Maximum is the total number of internal drives on each specific ProLiant server.	
	Cache	8-MB read only
	RAID Support	0, 1, 0+1, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No
Compaq NC3134 Fast Ethernet NIC 64 PCI Dual Port 10/100	Network Interface	10Base-T/100Base-TX
	Compatibility	PCI v2.2, IEEE 802.3/802.3u compliant
	Data Transfer Method	64-bit/66-MHz bus-master PCI
	Network Transfer Rate	10Base-T (Half-Duplex), 10 Mb/s 10Base-2 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s
	Connector	Dual RJ-45
	I/O Address and Interrupt	Automatic Configuration
	Cable Support	10Base-T/100Base-TX Categories 3, 4 or 5 UTP (2 or 4 pair); up to 328 feet (100 meters) Category 5 UTP (2 pair); up to 328 feet (100 meters)

Technical Specifications

Smart Array 431 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	160 MB/s
	Channels	1
	SCSI Ports (external/internal)	1/1
	Drives Supported (maximum)	14
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).	
	Cache	16-MB cache engine
	RAID Support	0, 1, 0+1 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No
Smart Array 3200 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 33 MHz
	PCI Peak Data Transfer Rate	266 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	320 MB/s total, 80 MB/s per channel
	Channels	4
	SCSI Ports (external/internal)	4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).	
	Cache	64-MB battery backed read-write
	RAID Support	0, 1, 0+1, 4, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

Smart Array 4200 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 33 MHz
	PCI Peak Data Transfer Rate	266 MB/s
	SCSI Protocols Supported	Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	320 MB/s total, 80 MB/s per channel
	Channels	4
	SCSI Ports (external/internal)	4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200/4300 family (14 hard disk drive enclosure).	
	Cache	64-MB battery backed read-write
	RAID Support	0, 1, 0+1, 5
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No

Technical Specifications

Smart Array 5300 Controller	Data Compatible with all Smart Array Controllers	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI Bus	64-bit, 66MHz
	PCI Peak Data Transfer Rate	533 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2, Wide-Ultra
	SCSI Peak Data Transfer Rate	640 MB/s total, 160 MB/s per channel
	Channels	2, 4
	SCSI Ports (external/internal)	2 channel model: 2/2 4 channel model: 4/2
	Drives Supported (maximum)	56
	Note: Drives Supported (maximum) is based on use of Compaq StorageWorks Enclosure 4200 family. (14 hard disk drive enclosure)	
	Cache	128, 64 or 32 MB battery backed read-write
	RAID Support	0, 1, 0+1, 5, Advanced Data Guarding
	Note: RAID ADG will be available as in the near future. For customers who have purchased the SA-5304/128 a quick firmware upgrades to enable the technology will be available from www.compaq.com/smartarray . The 128-MB cache module with RAID ADG will also be available in the near future.	
	Note: RAID Support: Advanced Data Guarding (RAID ADG) is available with 128-MB versions of the SA-5300 only.	
	Logical Drives (maximum)	32
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No
64-bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter	Drives Supported	Up to 28 SCSI devices (14 per channel)
	Storage Capacity	1.019 TB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI
		Wide Ultra2 SCSI
		Wide-Ultra SCSI-3
		Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
	External SCSI Connectors	Two 68-Pin VHDCI connectors
	Internal SCSI Connectors	Two 68-Pin Wide-Ultra SCSI-3 connectors One 50-Pin Narrow Ultra connector

Technical Specifications

64-bit/66-MHz Single Channel Wide Ultra3 SCSI Adapter	Drives Supported	Up to 14 SCSI devices
	Storage Capacity	254.8 GB
	Data Transfer Method	64-bit/66-MHz PCI bus-master
	Maximum SCSI Channel Transfer Rate	160 MB/s per channel
	Maximum Transfer Rate per PCI Bus (peak)	532 MB/s per channel
	SCSI Protocols	Wide Ultra3 SCSI
		Wide Ultra2 SCSI
		Wide-Ultra SCSI-3
		Fast-Wide SCSI-2
		Fast SCSI-2
	Electrical Protocol	Low Voltage Differential (LVD)
	SCSI Termination	Active Termination
External SCSI Connectors		One 68-Pin Wide Ultra SCSI-3 connector
Internal SCSI Connectors		Two 68-Pin Wide Ultra SCSI-3 connectors (one LVD and one SE) One 50-Pin Narrow Ultra connector

Compaq Rack 9142 (42U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	78.7 in/2,000 mm	83.38 in/2,168.65 mm	
	Depth	35.8 in/909 mm	48 in/121.92 mm	Opal
	Width	23.7 in/603 mm	32 in/812.8 mm	
	Weight	253 lbs/114.84 kg	325 lbs/147.52 kg	

Compaq Rack 9136 (36U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	68.6 in/1,742 mm	75.25 in/1,911.35 mm	
	Depth	35.8 in/909 mm	48 in/121.92 mm	Opal
	Width	23.7 in/603 mm	32 in/812.8 mm	
	Weight	165 lbs/75 kg	234 lbs/106 kg	

Compaq Rack 9122 (22U)(optional)	Dimensions	Total Cabinet	Shipping	Color
	Height	43 in/1,092 mm	52.25 in/1,327.15 mm	
	Depth	35.8 in/909 mm	48 in/121.92 mm	Opal
	Width	24 in/610 mm	32 in/812.8 mm	
	Weight	176 lbs/79.89 kg	225 lbs/102.13 kg	